## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

# (19) World Intellectual Property Organization International Bureau



## 

# (43) International Publication Date 2 October 2003 (02.10.2003)

#### **PCT**

# (10) International Publication Number WO 03/079770 A1

(51) International Patent Classification<sup>7</sup>:
A22B 1/00

A01K 1/00,

- (21) International Application Number: PCT/DK03/00202
- (22) International Filing Date: 26 March 2003 (26.03.2003)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

PA 2002 00466

27 March 2002 (27.03.2002) D

- (71) Applicant (for all designated States except US): BUTINA APS [DK/DK]; 5 Ydervang, DK-4300 Holbæk (DK).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): KILDEGAARD, Jacob [DK/DK]; 114, 1.TV Strandvejen, DK-2900 Hellerup (DK).
- (74) Agent: SLAGTERIERNES FORSKNINGSINSTITUT; Maglegaardsvej 2, DK-4000 Roskilde (DK).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,

CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

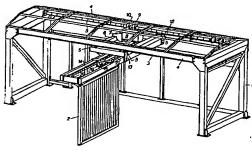
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### Declaration under Rule 4.17:

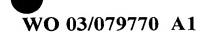
as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent JM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), acasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM).

[Continued on next page]

(54) Title: DEVICE AND METHOD FOR DRIVING ANIMALS IN AN OBLONG CORRIDOR SECTION



(57) Abstract: Device for driving animals in an oblong corridor section (21) by means of a driving gate (2), which can be moved from one end to the other of the corridor section comprises a first transport arrangement (3, 5, 10, 12) to move the driving gate (2) in the corridor section in the longitudinal direction of the section, from a first position (2b) at one end of the section to a second position (2c) at the other end, and to move the gate (2) in the opposite direction, after it has been brought outside the corridor section, from a position (2d), which is opposite the second position (2c) in the corridor section to a position (2a), which is opposite the first position (2b) in the corridor section. The first arrangement comprises a displaceable mountable part (6), which can be moved in the longitudinal direction of the section over a distance corresponding to the distance between the first position (2b) and the second position (2c) of the gate. The device also comprises a second transport arrangement (13, 14, 18, 19) to pull the gate sideways out from the corridor section in the plane of the gate through a gap (26) in one side wall (22) of the corridor section from the second position (2c) in the corridor section and to push the gate sideways into the corridor section in the plane of the gate through a second gap (25) in the side wall (22) from the position (2a), which is opposite the first position (2b) in the corridor section. The second arrangement comprises a second displaceable mounting part (16), to which the gate (2) is fastened. This mounting part can be moved transversely to the longitudinal direction of the section over a distance corresponding to the total width of the driving gate (2) and the side wall (22) provided with gaps.





European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

#### Published:

with international search report

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: A01K 1/00, A22B 1/00
According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: A01K, A22B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

### SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

#### FPO-INTERNAL

The state of the s	
MENTS CONSIDERED TO BE RELEVANT	I not to take No
Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
CS 110525 A (JAN SEHNAL ET AL), 15 April 1964 (15.04.64), column 1, line 26 - column 4, line 4, figures 1,2, claims 1,2	1,3,4,10-12,
<b></b>	
EP 0920807 A1 (MEAT AND LIVESTOCK COMMISSION), 9 June 1999 (09.06.99), column 1, line 4 - line 1 column 2, line 11 - line 14; column 2, line 18 - column 3, line 19, figures 1-3, claims 1-3,6-9,11,12-15	1-6,11,12, 14-17
US 5009191 A (TAGE W. JOERGENSEN ET AL), 23 April 1991 (23.04.91), column 4, line 8 - line 18; column 4, line 57 - line 62; column 6, line 6 - column 7, line 6, figure 2, claims 1,4-7	1,3-6
	Citation of document, with indication, where appropriate, of the relevant passages  CS 110525 A (JAN SEHNAL ET AL), 15 April 1964 (15.04.64), column 1, line 26 - column 4, line 4, figures 1,2, claims 1,2   EP 0920807 A1 (MEAT AND LIVESTOCK COMMISSION), 9 June 1999 (09.06.99), column 1, line 4 - line 19, line 18 - column 3, line 19, figures 1-3, claims 1-3,6-9,11,12-15   US 5009191 A (TAGE W. JOERGENSEN ET AL), 23 April 1991 (23.04.91), column 4, line 8 - line 18; column 4, line 57 - line 62; column 6, line 6 - column 7, line 6, figure 2,

Х	Further documents are listed in the continuation of Box	C.	X See patent family annex.
* "A"	Special categories of cited documents: document defining the general state of the art which is not considered	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E"	to be of particular relevance earlier application or patent but published on or after the international filing date document which may throw doubts on priority claim(s) or which is	"X"	document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L"	cited to establish the publication date of another chanon or other special reason (as specified)	"Y"	document of particular relevance: the claimed invention cannot be
"O"	document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than	,,,,,,	combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family
1	the priority date claimed e of the actual completion of the international search		of mailing of the international search report
			2 5 -06- 2003
24 June 2003		A - 122	orized officer
Name and mailing address of the ISA/		Aum	onzeu omeei
Swedish Patent Office Box 5055, S-102 42 STOCKHOLM		Igo	r Gazdik/Els hone No. +46 8 782 25 00
Fac	simile No. +46 8 666 02 86	Telep	hone No. 740 6 /62 23 00

ategory*	Citation of document, with indication, where appropriate, of the	releva	nt passages	Relevant to claim No.
4	US 5622141 A (STEVEN D. LAREVA), 22 April (22.04.97), figure 1, claims 15,16,18-			1,3-6,9-12
		_		
				·
•			•	
				-
	·			
				·
				·
	·			

# INTERNATIONAL SI CH REPORT Information on patent family members

02/06/03

International lication No.
PCT/DK 03/00202

Patent document cited in search report		Patent document Publication d in search report date			ent family nember(s)	Publication date	
CS	110525	A	15/04/64	NONE			
EP	0920807	A1	09/06/99	AT DE DK	199301 T 69704164 D 920807 T	15/03/01 00/00/00 25/06/01	
US	5009191	<b>A</b>	23/04/91	CA DE DK FI GB GB IE NL NO NO SE	1337789 A 3835763 A,C 552887 A 100578 B 884882 A 2211389 A,B 8824385 D 61095 B 883019 L 8802581 A 171142 B,C 884726 A 503565 C 8803764 A	26/12/95 03/05/89 23/04/89 00/00/00 23/04/89 05/07/89 00/00/00 21/09/94 22/04/89 16/05/89 26/10/92 24/04/89 08/07/96 23/04/89	
 US-	5622141	- A-	- 22/04/97	. NONE		- 	